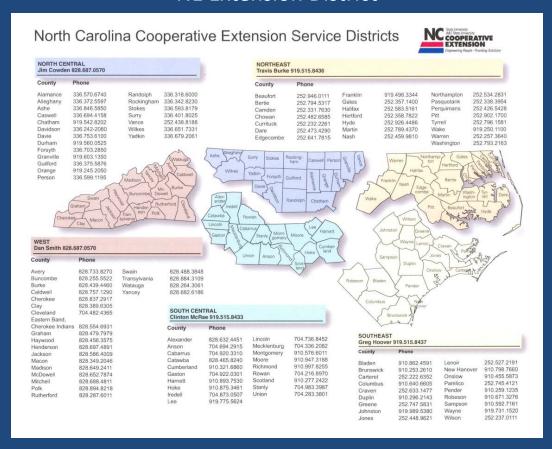
North Carolina Aquaculture Association Meeting September 3, 2014

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Canadian Food Inspection Agency (CFIA) Update

- December 10, 2011 CFIA rules go into effect requiring Aquatic Animal Health certification (Zoosanitary Certificate)
- 1 year for transition (enforcement Dec. 10, 2012)
- Schedule III Aquatic Animals (405 species, finfish, molluscs, crustaceans – live, whole - boxed and iced)
- Health Certificate (valid for 30 days) documenting commodity is not infected with disease of concern
- Visual inspection within 72 hrs. (no clinical signs of disease or parasites)
- Must have a valid relationship with a USDA accredited vet
- Export Certificate NOAA-US Dept. of Commerce (\$100 +)?

USDA APHIS Registration Program for U.S. Exporters of live and Dead Finfish and Crustacean Commodities intended for Food Service, Retail Use and Further Processing for Human Consumption Regulated under Canada's Schedule III

USDA APHIS Registration Program for U.S. Exporters of Live and Dead Finfish and Crustacean Commodities intended for Food Service, Retail Use and Further Processing for Human Consumption Regulated under Canada's Schedule III

1 Purpose

To ensure that all USDA APHIS registered facilities that export susceptible species of aquatic animals (http://www.inspection.gc.ca/animals/aquatic-animals/diseases/susceptible-

species/eng/132716257492811327162766981) to Canada have mitigations in place to address the risks of disease introduction that are listed as conditions on the Statement of the Exporter (see Annex I) which then allows Canada to waive zoosanitary export health certification.

2 Initial Pre-Export Inspection by a USDA APHIS Veterinary Medical Officer

The exporting company or production facility must undergo and pass an initial pre-export inspection by a USDA APHIS Veterinary Medical Officer to verify compliance with Canada's export requirements on the Statement of the Exporter (see Annex I and Annex II). All criteria used in the Registration Program Inspection Checklist (see Annex III) must be reviewed and certified as acceptable by APHIS personnel.

2.1 Components of the Inspection

The following activities are conducted during an APHIS Veterinary Medical Officer inspection:

- 2.1.1 Examination by visual inspection of the aquatic animals to verify that the population(s) at the registered facility(ies) is/are free from clinical signs of diseases of concern to Canada.
 - Inspection and verification of the export procedures and assessment of facility personnel knowledge and ability to implement these procedures to ensure that the aquatic animal population(s) is/ are free from clinical signs of diseases of concern to Canada.

2.1.2 Animal Management Requirements:

The following three requirements must be verified for <u>ALL SHIPMENTS</u> for <u>LIVE AND/OR DEAD</u> aquatic animals for FOOD SERVICE, RETAIL USE and FURTHER PROCESSING in Canada.

The OIE listed disease(s) are compulsorily notifiable to the competent authority in the exporting country and or reports of suspicion of non-OIE diseases of concern are investigated by the competent (USDA APHIS or state) authority.

- Verification that the registered facility has a standard operating procedure (SOP) and that facility
 personnel know the procedures for the mandatory notification to USDA APHIS and state
 authorities of OIE notifiable diseases of aquatic animals, as well as of suspected clinical signs of
 disease and/or unusual morbidity or mortality.
- "Diseases of concern" refers to Canada's list of susceptible species with the associated diseases of concern as per the website: http://www.inspection.gc.ca/animals/aquatic-animals/diseases/susceptible-species/eng/132716274928/1327162766981

The aquatic animals to be exported are not under any restriction by the exporting country's competent authority or intended for destruction of slaughter for disease control purposes.

f	Registration Program Inspection Checklist for facilities exporting live and/or dead aquatic animals to Canada for food service, retail use and/or further processing for human consumption
Aqu	vatic Facility
Nan	ne of the Exporter Company/Production Facility:
Add	ress of the Exporter Company/Production Facility:
Pho	ne of the Exporter Company/Production Facility:
Ema	ail address of the Exporter Company/Production Facility:
Date	e of UDSA inspection:
For	food service and/or retail use:
	Standard operating procedure (SOP) for mandatory notification of suspected clinical signs of disease and unusual morbidity or mortality.
	SOP for communication with USDA APHIS to ensure aquatic animal population(s) to be exported to Canada is/are not under disease control restrictions, communications are recorded and facility personnel staff are notified of disease control restrictions.
	SOP for transport water and/or ice.
	SOP for identification of visible ectoparasites and intermediate hosts. (Not required if only shipping dead animals)
	SOP for verification that only aquatic animals on import permit are included in the shipment. (Not required if only shipping dead animals)
	SOP for packaging and shipping procedures.
	SOP for labelling packages.
	ddition to verification of the above requirements, for further processing the following two requirements must b fied:
	SOP for identification of clinical signs of diseases within 96 hours prior to export or 96 hours post- harvest/slaughter prior to freezing and/or processing.

Exporting Fish to Canada Standard Operating Procedures (SOP)

- Comment on OIE reportable diseases and diseases of concern for export of HSB to Canada:
 - viral hemorrhagic septicemia
 - red sea bream iridovirus
 - infectious pancreatic necrosis
- Address issue of water for live fish transport as well as water source for iced fish (potable, commercial source, etc.)
- Need to address cleaning and disinfection of shipping containers prior to loading for live fish and or use of new boxes for ice packed fish
- Packaging of iced fish is done in a manner that prevents exchange of water or animals during transport or storage

Exporting Fish to Canada Standard Operating Procedures (SOP)

Standard Operating Procedures (SOP) for the harvest and sale of fish on XYZ Fish Farm

SOP for Potential Disease Outbreaks Associated with Export of Hybrid Striped Bass to Canada for Food Service or Retail Use

General NPDES Permit (General Permit NCG530000)

- Water quality complaints in 2004
- SOC issued December 15, 2008
- SOC rescinded August 1, 2013
- August 1, 2014, BMP's due to DENR for completion of all requirements for NPDES General Permit NCG530000
- Expires July 31, 2017

NPDES Permits for Catfish Farms?

- NC DENR WR representatives tour farms farm BMP review for NPDES Permit
- Tour very soon after Duke Energy coal ash spill –
 US EPA not warm and fuzzy
- Off-the-record discussion Do NC catfish producers need a NPDES Permit?

NPDES Permits for Catfish Farms?

NC NPDES Requirement: A concentrated aquatic animal production (CAAP) facility subject to the NPDES program is defined, but not limited to, a hatchery, fish farm, pond, raceway, net pen, submerged cage system, recirculating system, flow-through system, or similarly structured facility that meet Cold- or Warm-Water definitions and criteria.

Warm-Water species facilities that meet or exceed both of the following:

- 1) produce a minimum 100,000 lbs harvest-weight of aquatic animals per year and
- 2) discharge more than 30 days per year.

Effluent, due to rainfall, leaves the catfish ponds for more than 30 days per year.

NPDES Permits for Catfish Farms?

<u>US EPA Criteria</u> for determining a Concentrated Aquatic Animal Production Facility: A hatchery, fish farm, or other facility is a concentrated aquatic animal production facility for purpose of Part 122.24 if it contains, grows, or holds aquatic animals in either of the following categories:

- (a) Cold water
- (b) Warm water fish species or other warm water aquatic animals in ponds, raceways, or other similar structures which discharge at least 30 days per year, <u>but does not include</u>:
 - (1) Closed ponds which discharge only during periods of excess runoff; or
 - (2) Facilities which produce less than 100,000 lbs. of aquatic animals per year

NC DENR decision – since catfish farms rarely drain their ponds, the drain pipes are essentially overflow structures and as such, catfish ponds do not need to have NPDES permits

NPDES Permits for Other Farms?

"Other types of facilities also not covered by today's action include closed pond systems (most of which do not meet the regulatory definition of a CAAP facility), molluscan shellfish operations, including nurseries, crawfish production, alligator production, and aquaria and net pens rearing native species released after a growing period of no longer than 4 months to supplement commercial and sports fisheries."

Brush Fires

- Aquaponics hobby vs. commercial scale
- Water Quality toxic Euglena
- Aquatic Weeds Chara, Proliferating Spike Rush,
 Duckweed, filamentous algae, blue-green algae
- Tanglewood Condos/Apartments midges, mosquitos
- YouTube Video Ceramic oxygen diffuser repair